

REMARKS

In response to the species restriction requirement contained in the Office Action, Applicant elects Embodiment I with traverse. Claims 153-179 read on elected Embodiment I. The reason for the traverse is that Embodiment II is the same species as Embodiment I, such that claims 180-188 also read on elected Embodiment I.

Non elected claims 189-261 have been canceled from the present application, and are being prosecuted in separate divisional applications. In addition to the canceled claims, claims 163, 164 168 and 183 have been amended. The title has also been amended to be more descriptive of the claimed subject matter.

The elected claims are directed to a semiconductor component 16 (Figure 1K) which includes a thinned semiconductor die 10T (Figure 1K) having a circuit side 20 (Figure 1G), a thinned back side 22T (Figure 1H), and a plurality of peripheral edges 30 (Figure 1J). The component 16 (Figure 1K) also includes a first polymer layer (circuit side polymer layer 36P (Figure 1J) and edge polymer layers 40 (Figure 1K)) covering the circuit side 20 and the edges 30. The component 16 (Figure 1K) also includes a second polymer layer (back side polymer layer 38P (Figure 1K)) covering the back side 22T.

The component 16 (Figure 1K) also includes a plurality of die contacts 18 (Figure 1A) on the die 10T, and a plurality of contact bumps 24P (Figure 1K) on the die contacts 18 embedded in the first polymer layer. The component 16 (Figure 1K) also includes terminal contacts 42 (Figure 1K) on the contact bumps 24P.

As shown in Figure 8F, the component can also include conductive vias 70A (Figure 8F) in electrical communication with the die contacts 18, and terminal contacts 42A (Figure 8F) on the conductive vias 70A. As shown in Figure 19G, the terminal contacts 42PGA can comprise exposed portions

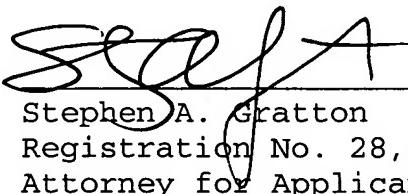
of the conductive vias. As shown in Figure 9C, the conductive vias can comprise reverse bias junctions (junctions between substrate 14A and conductivity regions 114A).

Also please note Applicant has previously filed Information Disclosure Statements dated 08/21/2003, 03/15/2004 and 12/30/2004.

Favorable consideration and allowance of claims 153-188 is respectfully requested. Should any issues arise that will advance this case to allowance, the Examiner is asked to contact the undersigned by telephone.

DATED this 4th day of February, 2005.

Respectfully submitted:



Stephen A. Gratton
Registration No. 28,418
Attorney for Applicant

2764 S. Braun Way
Lakewood, CO 80228
Telephone: (303) 989-6353
FAX (303) 989-6538

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to: Mail Stop Amendment, Commissioner For Patents, PO BOX 1450, Alexandria, VA 22313-1450 on this 4th day of February, 2005.

February 4, 2005
Date of Signature



Stephen A. Gratton, Attorney for Applicant